

EAST 7/26

L Number	Hits	Search Text	DB	Time stamp
5	0	jp2002310132	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/26 11:11
6	1	jp2002310132a	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/26 11:11
7	41	(viscous or fluid or grease or oil or hydraulic) with (damper or dampener) and 16/221-392.ccls.	USPAT; US-PGPUB	2004/07/26 11:16
9	4	(viscous or fluid or grease or oil or liquid or hydraulic) with (damper or dampener) and 16/221-392.ccls.	USOCR	2004/07/26 11:17
8	42	(viscous or fluid or grease or oil or liquid or hydraulic) with (damper or dampener) and 16/221-392.ccls.	USPAT; US-PGPUB	2004/07/26 11:19
10	5	(viscous or fluid or grease or oil or liquid or hydraulic) with (damper or dampener) and 16/303.ccls.	USPAT; US-PGPUB	2004/07/26 11:20
11	21	(viscous or fluid or grease or oil or liquid or hydraulic) and 16/303.ccls.	USPAT; US-PGPUB	2004/07/26 11:23
12	1468	(viscous or silicone or fluid or grease or oil or liquid or hydraulic) same (damper or dampener) same (rotating or rotary)	USPAT; US-PGPUB	2004/07/26 11:24
13	778	(viscous or silicone or fluid or grease or oil or liquid or hydraulic) with (damper or dampener) with (rotating or rotary)	USPAT; US-PGPUB	2004/07/26 11:25
14	54	(viscous or silicone or fluid or grease or oil or liquid or hydraulic) with (damper or dampener) with (rotating or rotary) and (cam\$6 or step or stepped) with end with (shaft or plunger or rotors!)	USPAT; US-PGPUB	2004/07/26 11:26

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Search History 7/26/04 11:30:17 AM Page 2 C:\APPS\east\workspaces\10602348.wsp 4534754				

-	2	((("6530121") or ("d486833"))).PN.	USPAT; US-PGPUB	2004/07/25 13:04
-	1	6530121.URPN.	USPAT	2004/07/25 13:07
-	8	("5697124" "5704094" "5715575" "5966776" "5996178" "6115886" "6292980" "6295358").PN.	USPAT	2004/07/25 13:07
-	9	(US-6745436-\$ or US-6295358-\$ or US-6292980-\$ or US-6115886-\$ or US-5996178-\$ or US-5966776-\$ or US-5715575-\$ or US-5704094-\$ or US-5697124-\$).did.	USPAT	2004/07/25 13:09

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Search History 7/26/04 14:30:19 AM Page 7 C:\APPS\least\workspaces\10072518.wsp 4534754				

-	58	(rotors! or first adj rotor same second adj rotor) same (damper or dampener) same (fluid or viscous)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/25 13:32
-	1	2004-399454.NRAN.	DERWENT	2004/07/25 13:23
-	5	(rotors! or first adj rotor same second adj rotor) same (damper or dampener) same (fluid or viscous) and nifco.asn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/25 13:35
-	2	(US-4685232-\$).did. or (US-20030228918-\$).did. or (JP-2004176806-\$).did.	USPAT; US-PGPUB; EPO	2004/07/26 05:50
-	198	379/433.13.ccls.	USPAT; US-PGPUB; EPO	2004/07/26 05:56
-	59	455/\$.ccls. and (damper or dampener)	USPAT; US-PGPUB; EPO	2004/07/26 05:53
-	4	379/433.13.ccls. and (viscous or fluid or grease or oil or hydraulic) with (damper or dampener or check or closure or shcok adj absorb\$4)	USPAT; US-PGPUB; EPO	2004/07/26 05:59
-	1	cellphone and (viscous or fluid or grease or oil or hydraulic) with (damper or dampener or check or closure or shcok adj absorb\$4)	USPAT; US-PGPUB; EPO	2004/07/26 05:59
-	150	(viscous or fluid or grease or oil or hydraulic) with (damper or dampener) same hinge	USPAT; US-PGPUB; EPO	2004/07/26 06:00
-	14	(viscous or fluid or grease or oil or hydraulic) with (damper or dampener) same hinge same rotor	USPAT; US-PGPUB; EPO	2004/07/26 06:11
-	798	(viscous or fluid or grease or oil or hydraulic) with (damper or dampener) same rotor	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 06:11
-	29	(viscous or fluid or grease or oil or hydraulic) with (damper or dampener) same rotor and 16/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 09:49
-	46	(viscous or fluid or grease or oil or hydraulic) with (damper or dampener) and 16/221-392.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 11:16
-	7	(viscous or fluid or grease or oil or hydraulic) with (damper or dampener) and 16/330,303.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 07:52
-	29	(viscous or fluid or grease or oil or hydraulic) with (damper or dampener) same rotor and 16/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 07:53
-	53	(viscous or fluid or grease or oil or hydraulic) with (damper or dampener) with rotary and 16/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 09:17
-	117	(16/54).CCLS.	USPAT; US-PGPUB	2004/07/26 11:11
-	2198	(viscous or fluid or liquid or grease or oil or hydraulic) with (damper or dampener) with (rotor or rotary or rotating or rotate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 09:52

-	167	(viscous or fluid or liquid or grease or oil or hydraulic) with (damper or dampener) with (rotor or rotary or rotating or rotate) same (coaxial\$5 or concentric\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 09:53
-	136	(viscous or fluid or liquid or grease or oil or hydraulic) with (damper or dampener) with (rotor or rotary or rotating or rotate) same (coaxial\$5 or concentric\$5) with (rotor or rotary or rotating or rotate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 09:53
-	2	(viscous or fluid or liquid or grease or oil or hydraulic) with (damper or dampener) with (rotor or rotary or rotating or rotate) same (coaxial\$5 or concentric\$5) with (rotor or rotary or rotating or rotate) same stepped	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 09:54
-	16	(viscous or fluid or liquid or grease or oil or hydraulic) with (damper or dampener) with (rotor or rotary or rotating or rotate) and (rotor or rotary or rotating or rotate) and stepped same rotor	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 09:58
-	0	6142269.pn. and (spring or bias\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 09:59
-	0	6142269.URPN.	USPAT	2004/07/26 09:59
-	3	("2192876" "4768630" "4842106").PN.	USPAT	2004/07/26 09:59

Butler, Douglas

PLUS
7/26/04

From: PLUS
Sent: Monday, June 14, 2004 11:01 AM
To: Butler, Douglas
Subject: PLUS Results for 10662348

Here are the PLUS search results for 10662348.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10662348_QUAL.txt



10662348_LIST.txt



10662348_WEST.txt



10662348_EAST.txt



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10662348_CLS.txt



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10662348_WDS.txt

PLUS Search Results for S/N 10662348, Searched June 14, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10662348_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10662348 on June 14, 2004

Original Classifications

4 123/216
4 310/49R
4 318/254
3 60/487
3 310/90
3 360/97.03
2 29/598
2 318/139
2 318/466
2 318/701
2 322/32
2 324/161
2 415/112
2 415/115
2 417/204
2 417/42
2 433/132

Cross-Reference Classifications

6 310/268
6 310/42
5 318/254
4 123/242
4 310/112
4 310/114
4 310/67R
4 360/98.07
4 360/99.08
3 91/485
3 310/198
3 310/68R
3 310/90
3 318/138
3 415/111
3 417/205
3 417/410.3
2 29/596
2 29/598
2 180/65.7
2 180/65.8
2 277/318
2 277/375
2 277/408
2 310/115
2 310/156.36
2 310/162
2 310/179
2 310/185
2 310/89
2 318/539
2 324/166
2 360/133
2 366/89
2 384/110

10662348_CLS

2 384/448
2 415/113
2 415/176
2 415/199.5
2 415/229
2 415/230
2 415/231
2 415/26
2 415/49
2 416/114
2 416/96A
2 416/97R
2 417/203
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2 418/201.1
2 425/379.1
2 433/126

Combined Classifications

9 318/254
6 310/268
6 310/42
6 310/90
5 123/216
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5 310/114
5 310/49R
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5 360/98.07
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3 310/162
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 2 417/423.12
 2 417/45
 2 417/486
 2 425/379.1
 2 433/126
 2 433/132
 2 494/37

10662348_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10662348 on June 14, 2004

9 318/254 (4 OR, 5 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/254 SELF-COMMUTATED IMPULSE OR RELUCTANCE MOTORS

6 310/268 (0 OR, 6 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/261 ..Rotor structure
 310/264 ...Armatures
 310/268Disc

6 310/42 (0 OR, 6 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/42 ..With assembling, metal casting or machining
 feature

6 310/90 (3 OR, 3 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/66 ..With other elements
 310/90 ...Bearing or air-gap adjustment or bearing
 lubrication

5 123/216 (4 OR, 1 XR)
 Class 123 : INTERNAL-COMBUSTION ENGINES
 123/200 ROTARY
 123/216 .With charge treatment means

5 123/242 (1 OR, 4 XR)
 Class 123 : INTERNAL-COMBUSTION ENGINES
 123/200 ROTARY
 123/241 .With compression, combustion, and expansion in
 a single variable volume
 123/242 ..Planetating rotor

5 310/114 (1 OR, 4 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/114 ..Plural rotary elements

5 310/49R (4 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/46 ..Magnetic motors
 310/49R ...Step-by-step

5 310/67R (1 OR, 4 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC

10662348_CLSTITLES

- 310/40R .Rotary
 310/66 ..With other elements
 310/67R ...Inbuilt or incorporated unit
- 5 360/98.07 (1 OR, 4 XR)
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
 RETRIEVAL
 360/88 RECORD TRANSPORT WITH HEAD STATIONARY DURING
 TRANSDUCING
 360/97.01 .Disk record
 360/98.01 ..Plural disks
 360/98.07 ...Rotational drive detail
- 4 29/598 (2 OR, 2 XR)
 Class 029 : METAL WORKING
 29/592 METHOD OF MECHANICAL MANUFACTURE
 29/592.1 .Electrical device making
 29/596 ..Dynamoelectric machine
 29/598 ...Rotor
- 4 310/112 (0 OR, 4 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/112 ..Plural units, structurally united
- 4 360/99.08 (0 OR, 4 XR)
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
 RETRIEVAL
 360/88 RECORD TRANSPORT WITH HEAD STATIONARY DURING
 TRANSDUCING
 360/97.01 .Disk record
 360/99.08 ..Rotational drive detail
- 3 29/596 (1 OR, 2 XR)
 Class 029 : METAL WORKING
 29/592 METHOD OF MECHANICAL MANUFACTURE
 29/592.1 .Electrical device making
 29/596 ..Dynamoelectric machine
- 3 60/487 (3 OR, 0 XR)
 Class 060 : POWER PLANTS
 60/325 PRESSURE FLUID SOURCE AND MOTOR
 60/487 .Input pump and rotary output motor system
 having displacement varying type of direction or speed
 selector
- 3 91/485 (0 OR, 3 XR)
 Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
 91/472 THREE OR MORE CYLINDERS ARRANGED IN PARALLEL
 RADIAL OR CONICAL RELATIONSHIP WITH ROTARY TRANSMISSION
 AXIS
 91/484 .Control valve seating surface contact
 maintained by fluid pressure bias
 91/485 ..Disc valve
- 3 310/162 (1 OR, 2 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC

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310/40R .Rotary
 310/159 ..A.C.
 310/162 ...Synchronous

3 310/198 (0 OR, 3 XR)

Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/179 ..Windings and core structure
 310/195 ...Armature or primary
 310/198Plural windings

3 310/68R (0 OR, 3 XR)

Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/66 ..With other elements
 310/68R ...Electric circuit elements

3 318/138 (0 OR, 3 XR)

Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/138 SPACE-DISCHARGE-DEVICE COMMUTATED MOTOR

3 360/97.03 (3 OR, 0 XR)

Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
 RETRIEVAL
 360/88 RECORD TRANSPORT WITH HEAD STATIONARY DURING
 TRANSDUCING
 360/97.01 .Disk record
 360/97.02 ..Environmental control (e.g., air filter,
 temperature control)
 360/97.03 ...Plural disks

3 415/111 (0 OR, 3 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/110 WITH LUBRICATING, SEALING, PACKING OR BEARING
 MEANS HAVING INTERNAL WORKING FLUID CONNECTION (E.G., FL

UID

OR FLUID BIASED SEAL, ETC.)
 415/111 .For shaft sealing, packing, lubricating or
 bearing means

3 417/205 (0 OR, 3 XR)

Class 417 : PUMPS
 417/199.1 DIVERSE PUMPS
 417/205 .Series

3 417/410.3 (0 OR, 3 XR)

Class 417 : PUMPS
 417/321 MOTOR DRIVEN
 417/410.1 .Electric or magnetic motor
 417/410.3 ..Rotary expansible chamber pump

3 417/462 (1 OR, 2 XR)

Class 417 : PUMPS
 417/437 EXPANSIBLE CHAMBER TYPE
 417/460 .Moving cylinder
 417/462 ..Unidirectionally rotating cylinder

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- 3 418/201.1 (1 OR, 2 XR)
 Class 418 : ROTARY EXPANSIBLE CHAMBER DEVICES
 418/191 INTERENGAGING ROTATING MEMBERS
 418/201.1 .Helical or herringbone
- 2 123/450 (1 OR, 1 XR)
 Class 123 : INTERNAL-COMBUSTION ENGINES
 123/434 CHARGE FORMING DEVICE (E.G., POLLUTION CONTROL)
- 123/445 .Fuel injection system
 123/446 ..Fuel pump flow regulation
 123/448 ...Sequential distributor
 123/450Rotary distributor
- 2 180/65.7 (0 OR, 2 XR)
 Class 180 : MOTOR VEHICLES
 180/54.1 POWER
 180/65.1 .Electric
 180/65.6 ..With gearing between electric motor and drive wheel
 180/65.7 ...Gearing is a changeable ratio gearing
- 2 180/65.8 (0 OR, 2 XR)
 Class 180 : MOTOR VEHICLES
 180/54.1 POWER
 180/65.1 .Electric
 180/65.8 ..With electronic devices (logic gates, semi-conductors, vacuum tubes, etc.) in control circuit
- 2 267/140.12 (1 OR, 1 XR)
 Class 267 : SPRING DEVICES
 267/136 RESILIENT SHOCK OR VIBRATION ABSORBER
 267/140.11 .Including energy absorbing means or feature (e.g., supplemental vehicle equipment, such as motor mounted, seat, etc., including additional fluid or friction energy absorber)
 267/140.12 ..Having concentric coaxial spring between plural confining means for radial force
- 2 267/140.13 (1 OR, 1 XR)
 Class 267 : SPRING DEVICES
 267/136 RESILIENT SHOCK OR VIBRATION ABSORBER
 267/140.11 .Including energy absorbing means or feature (e.g., supplemental vehicle equipment, such as motor mounted, seat, etc., including additional fluid or friction energy absorber)
 267/140.13 ..Axial
- 2 277/318 (0 OR, 2 XR)
 Class 277 : SEAL FOR A JOINT OR JUNCTURE
 277/317 SEAL COMBINED WITH INDICATOR, SAMPLER, OR INSPECTION FEATURE
 277/318 .Fluid pressure
- 2 277/375 (0 OR, 2 XR)

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- Class 277 : SEAL FOR A JOINT OR JUNCTURE
 277/345 SEAL BETWEEN RELATIVELY MOVABLE PARTS (I.E.,
 DYNAMIC SEAL)
 277/358 .Relatively rotatable radially extending
 sealing face member (e.g., face, mechanical, etc.)
 277/370 ..Installation, removal, assembly, disassembly,
 or repair feature
 277/371 ...Unitized seal assembly (e.g., cartridge,
 etc.)
 277/375Mounted in housing or casing
- 2 277/408 (0 OR, 2 XR)
 Class 277 : SEAL FOR A JOINT OR JUNCTURE
 277/345 SEAL BETWEEN RELATIVELY MOVABLE PARTS (I.E.,
 DYNAMIC SEAL)
 277/358 .Relatively rotatable radially extending
 sealing face member (e.g., face, mechanical, etc.)
 277/408 ..Introduction, circulation, or removal of
 fluid
- 2 310/115 (0 OR, 2 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/114 ..Plural rotary elements
 310/115 ...Field and armature both rotate
- 2 310/156.32 (1 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/152 ..Permanent magnet machines
 310/156.01 ...Permanent magnet rotor
 310/156.32Including an axial air gap
- 2 310/156.36 (0 OR, 2 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/152 ..Permanent magnet machines
 310/156.01 ...Permanent magnet rotor
 310/156.32Including an axial air gap
 310/156.36With plural sets of rotating magnets
- 2 310/166 (1 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/159 ..A.C.
 310/166 ...Induction
- 2 310/178 (1 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/177 ..D.C.
 310/178 ...Homopolar
- 2 310/179 (0 OR, 2 XR)

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- Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/179 ..Windings and core structure
- 2 310/185 (0 OR, 2 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/179 ..Windings and core structure
 310/180 ...Field or excitation windings or structure
 310/184Plural field windings
 310/185Plural sets of poles
- 2 310/254 (1 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/254 ..Stator structure
- 2 310/261 (1 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/261 ..Rotor structure
- 2 310/40MM (1 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/40MM ..Miniature motors
- 2 310/68B (1 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/66 ..With other elements
 310/68R ...Electric circuit elements
 310/68BCondition responsive (e.g., position, torque, etc.)
- 2 310/89 (0 OR, 2 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/66 ..With other elements
 310/85 ...Mechanical shields or protectors
 310/89Housings, windows or covers
- 2 318/139 (2 OR, 0 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/139 BATTERY-FED MOTOR SYSTEMS
- 2 318/466 (2 OR, 0 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/445 AUTOMATIC AND/OR WITH TIME-DELAY MEANS (E.G., AUTOMATIC STARTING AND/OR STOPPING)
 318/466 .Movement, position, or limit-of-travel

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- 2 318/539 (0 OR, 2 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/538 MOTOR STRUCTURE ADJUSTMENT OR CONTROL
 318/539 .Both armature and field structures rotatable
 or adjustable
- 2 318/696 (1 OR, 1 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/696 OPEN-LOOP STEPPING MOTOR CONTROL SYSTEMS
- 2 318/701 (2 OR, 0 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/700 SYNCHRONOUS MOTOR SYSTEMS
 318/701 .Hysteresis or reluctance motor systems
- 2 318/773 (1 OR, 1 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/727 INDUCTION MOTOR SYSTEMS
 318/767 .Primary circuit control
 318/772 ..Plural speed
 318/773 ...Pole changing
- 2 322/32 (2 OR, 0 XR)
 Class 322 : ELECTRICITY: SINGLE GENERATOR SYSTEMS
 322/17 AUTOMATIC CONTROL OF GENERATOR OR DRIVING MEANS

 322/29 .Speed or frequency of generator
 322/32 ..Frequency responsive devices or networks
- 2 324/161 (2 OR, 0 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/160 ELECTRICAL SPEED MEASURING
 324/161 .Speed comparing means
- 2 324/166 (0 OR, 2 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/160 ELECTRICAL SPEED MEASURING
 324/166 .Including speed-related frequency generator
- 2 360/133 (0 OR, 2 XR)
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
 RETRIEVAL
 360/131 RECORD MEDIUM
 360/132 .In container
 360/133 ..For disk
- 2 366/147 (1 OR, 1 XR)
 Class 366 : AGITATING
 366/144 WITH HEATING OR COOLING
 366/147 .Medium in stirrer or mixing chamber
- 2 366/84 (1 OR, 1 XR)
 Class 366 : AGITATING
 366/69 RUBBER OR HEAVY PLASTIC WORKING
 366/79 .Stirrer is through-pass screw conveyor
 366/83 ..Plural screw conveyors on separate shafts
 366/84 ...In parallel intercommunicating mixing
 chambers

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- 2 366/89 (0 OR, 2 XR)
 Class 366 : AGITATING
 366/69 RUBBER OR HEAVY PLASTIC WORKING
 366/79 .Stirrer is through-pass screw conveyor
 366/89 ..Varying diameter of shaft
- 2 384/107 (1 OR, 1 XR)
 Class 384 : BEARINGS
 384/91 ROTARY BEARING
 384/100 .Fluid bearing
 384/107 ..Radial and thrust
- 2 384/110 (0 OR, 2 XR)
 Class 384 : BEARINGS
 384/91 ROTARY BEARING
 384/100 .Fluid bearing
 384/107 ..Radial and thrust
 384/110 ...Conical
- 2 384/448 (0 OR, 2 XR)
 Class 384 : BEARINGS
 384/91 ROTARY BEARING
 384/445 .Antifriction bearing
 384/448 ..Sensor or inspection features; liquid metal
 or shipping protection features; bearing member integral
 with seal
- 2 415/108 (1 OR, 1 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/108 CASING AND SPACED HOUSING WITH SPACE VENTED TO
 WORKING FLUID
- 2 415/112 (2 OR, 0 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/110 WITH LUBRICATING, SEALING, PACKING OR BEARING
 MEANS HAVING INTERNAL WORKING FLUID CONNECTION (E.G., F
 LUID
 OR FLUID BIASED SEAL, ETC.)
 415/111 .For shaft sealing, packing, lubricating or
 bearing means
 415/112 ..With inlet and outlet connections
- 2 415/113 (0 OR, 2 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/110 WITH LUBRICATING, SEALING, PACKING OR BEARING
 MEANS HAVING INTERNAL WORKING FLUID CONNECTION (E.G., F
 LUID
 OR FLUID BIASED SEAL, ETC.)
 415/111 .For shaft sealing, packing, lubricating or
 bearing means
 415/113 ..Fluid biased, movable or resilient portion
- 2 415/115 (2 OR, 0 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/115 WITH PASSAGE IN BLADE, VANE, SHAFT OR ROTARY
 DISTRIBUTOR COMMUNICATING WITH WORKING FLUID
- 2 415/176 (0 OR, 2 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

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415/175 INCLUDING ADDITIONAL MEANS CAUSING OR
CONTROLLING FLUID FLOW FOR HEAT EXCHANGING, LUBRICATING

OR

SEALING

415/176 .Means subjected to or is working fluid

2 415/199.5 (0 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/182.1 WORKING FLUID PASSAGE OR DISTRIBUTING MEANS

ASSOCIATED WITH RUNNER (E.G., CASING, ETC.)

415/198.1 .Plural rigidly related blade sets

415/199.4 ..Including an axial-flow blade set

415/199.5 ...Plural serial axial-flow blade sets with
intermediate stationary flow diverter(s)

2 415/229 (0 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/229 BEARING, SEAL, OR LINER BETWEEN SHAFT OR SHAFT
SLEEVE AND STATIC PART

2 415/230 (0 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/229 BEARING, SEAL, OR LINER BETWEEN SHAFT OR SHAFT
SLEEVE AND STATIC PART

415/230 .Seal

2 415/231 (0 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/229 BEARING, SEAL, OR LINER BETWEEN SHAFT OR SHAFT
SLEEVE AND STATIC PART

415/230 .Seal

415/231 ..Resiliently biased

2 415/26 (0 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/13 WITH CONTROL MEANS RESPONSIVE TO NON-CYCLIC
CONDITION SENSING, CENTRIFUGAL ACTUATION OR TORQUE

415/26 .Responsive to moving member developed fluid
force, current or pressure

2 415/49 (0 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/13 WITH CONTROL MEANS RESPONSIVE TO NON-CYCLIC
CONDITION SENSING, CENTRIFUGAL ACTUATION OR TORQUE

415/47 .Temperature or fluid force responsive member

415/49 ..Fluid force responsive member controls
working fluid

2 416/114 (0 OR, 2 XR)

Class 416 : FLUID REACTION SURFACES

416/98 SUSTAINED ANCILLARY MOVEMENT OF ROTARY WORKING
MEMBER (E.G., CYCLIC FEATHERING, ETC.)

416/112 .Responsive to fixed actuator (e.g., cam or
trip, etc.)

416/113 ..Axial cam

416/114 ...Selectively adjustable

2 416/96A (0 OR, 2 XR)

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- Class 416 : FLUID REACTION SURFACES
 416/95 WITH HEATING, COOLING OR THERMAL INSULATION MEANS
 416/96R .Changing state mass within or fluid flow through working member or carrier
 416/96A ..Blade inserts
- 2 416/97R (0 OR, 2 XR)
 Class 416 : FLUID REACTION SURFACES
 416/95 WITH HEATING, COOLING OR THERMAL INSULATION MEANS
 416/96R .Changing state mass within or fluid flow through working member or carrier
 416/97R ..Flow exhausted to working fluid
- 2 417/203 (0 OR, 2 XR)
 Class 417 : PUMPS
 417/199.1 DIVERSE PUMPS
 417/201 .Including rotary nonexpansible chamber type
 417/203 ..Preceding diverse pump
- 2 417/204 (2 OR, 0 XR)
 Class 417 : PUMPS
 417/199.1 DIVERSE PUMPS
 417/204 .Moving partition or cylinder of rotary pump forms or actuates reciprocating pump
- 2 417/269 (0 OR, 2 XR)
 Class 417 : PUMPS
 417/269 THREE OR MORE CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL RELATIONSHIP WITH ROTARY TRANSMISSION AXIS
- 2 417/42 (2 OR, 0 XR)
 Class 417 : PUMPS
 417/1 CONDITION RESPONSIVE CONTROL OF PUMP DRIVE MOTOR
 417/42 .In response to pump speed
- 2 417/423.12 (0 OR, 2 XR)
 Class 417 : PUMPS
 417/321 MOTOR DRIVEN
 417/410.1 .Electric or magnetic motor
 417/423.1 ..Rotary motor and rotary nonexpansible chamber pump
 417/423.12 ...Having bearing
- 2 417/45 (0 OR, 2 XR)
 Class 417 : PUMPS
 417/1 CONDITION RESPONSIVE CONTROL OF PUMP DRIVE MOTOR
 417/44.1 .By control of electric or magnetic drive motor
 417/45 ..By changing electrical characteristic of motor or motor circuit
- 2 417/486 (0 OR, 2 XR)
 Class 417 : PUMPS
 417/437 EXPANSIBLE CHAMBER TYPE

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417/486 .Plural pumping members in single pump chamber

2 425/379.1 (0 OR, 2 XR)

Class 425 : PLASTIC ARTICLE OR EARTHENWARE SHAPING OR
TREATING: APPARATUS

425/376.1 STOCK PRESSURIZING MEANS OPERABLY ASSOCIATED
WITH DOWNSTREAM SHAPING ORIFICE

425/378.1 .Including heating or cooling means

425/379.1 ..Plural spaced

2 433/126 (0 OR, 2 XR)

Class 433 : DENTISTRY

433/25 APPARATUS

433/103 .Having motor or means to transmit motion from
motor to tool (e.g., "engine")

433/114 ..Hand-held tool or handpiece

433/126 ...Having means facilitating assembly or
disassembly of tool or handpiece

2 433/132 (2 OR, 0 XR)

Class 433 : DENTISTRY

433/25 APPARATUS

433/103 .Having motor or means to transmit motion from
motor to tool (e.g., "engine")

433/114 ..Hand-held tool or handpiece

433/131 ...Having motor

433/132Rotary fluid turbine

2 494/37 (1 OR, 1 XR)

Class 494 : IMPERFORATE BOWL: CENTRIFUGAL SEPARATORS

494/37 PROCESS

Butler, Douglas

From: PLUS
Sent: Wednesday, March 03, 2004 9:09 AM
To: Butler, Douglas
Subject: PLUS Results for 10662348

Here are the PLUS search results for 10662348.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10662348_QUAL.txt



10662348_LIST.txt



10662348_WEST.txt



10662348_EAST.txt



10662348.east



10662348_CLS.txt



10662348_CLSTITLES.1

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10662348_WDS.txt

10662348_LIST

PLUS Search Results for S/N 10662348, Searched March 03, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5678786	4400659	4920293
4831298	4407258	4922406
4973233	4409505	4955791
5394283	4425883	4986740
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4307309	4445822	5015149
4412796	4447220	5176261
4460319	4450813	5180225
4506558	4455499	5197861
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4628245	4468604	5216339
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4329601	4880354	5471104
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4388579	4900292	5489193

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10662348_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10662348 on March 03, 2004

Original Classifications

4 123/216
4 310/49R
4 318/254
3 60/487
3 310/90
3 360/97.03
2 29/598
2 318/139
2 318/466
2 318/701
2 322/32
2 324/161
2 415/112
2 415/115
2 417/204
2 417/42
2 433/132

Cross-Reference Classifications

6 310/268
6 310/42
5 318/254
4 123/242
4 310/112
4 310/114
4 310/67R
4 360/98.07
4 360/99.08
3 91/485
3 310/198
3 310/68R
3 310/90
3 318/138
3 415/111
3 417/205
3 417/410.3
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2 29/598
2 180/65.7
2 180/65.8
2 277/318
2 277/375
2 277/408
2 310/115
2 310/156.36
2 310/162
2 310/179
2 310/185
2 310/89
2 318/539
2 324/166
2 360/133
2 366/89
2 384/110

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2 384/448
2 415/113
2 415/176
2 415/199.5
2 415/229
2 415/230
2 415/231
2 415/26
2 415/49
2 416/114
2 416/96A
2 416/97R
2 417/203
2 417/269
2 417/423.12
2 417/45
2 417/462
2 417/486
2 418/201.1
2 425/379.1
2 433/126

Combined Classifications

9 318/254
6 310/268
6 310/42
6 310/90
5 123/216
5 123/242
5 310/114
5 310/49R
5 310/67R
5 360/98.07
4 29/598
4 310/112
4 360/99.08
3 29/596
3 60/487
3 91/485
3 310/162
3 310/198
3 310/68R
3 318/138
3 360/97.03
3 415/111
3 417/205
3 417/410.3
3 417/462
3 418/201.1
2 123/450
2 180/65.7
2 180/65.8
2 267/140.12
2 267/140.13
2 277/318
2 277/375
2 277/408
2 310/115
2 310/156.32

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2 310/156.36
2 310/166
2 310/178
2 310/179
2 310/185
2 310/254
2 310/261
2 310/40MM
2 310/68B
2 310/89
2 318/139
2 318/466
2 318/539
2 318/696
2 318/701
2 318/773
2 322/32
2 324/161
2 324/166
2 360/133
2 366/147
2 366/84
2 366/89
2 384/107
2 384/110
2 384/448
2 415/108
2 415/112
2 415/113
2 415/115
2 415/176
2 415/199.5
2 415/229
2 415/230
2 415/231
2 415/26
2 415/49
2 416/114
2 416/96A
2 416/97R
2 417/203
2 417/204
2 417/269
2 417/42
2 417/423.12
2 417/45
2 417/486
2 425/379.1
2 433/126
2 433/132
2 494/37

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Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10662348 on March 03, 2004

9 318/254 (4 OR, 5 XR)
Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
318/254 SELF-COMMUTATED IMPULSE OR RELUCTANCE MOTORS

6 310/268 (0 OR, 6 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10 DYNAMOELECTRIC
310/40R .Rotary
310/261 ..Rotor structure
310/264 ...Armatures
310/268Disc

6 310/42 (0 OR, 6 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10 DYNAMOELECTRIC
310/40R .Rotary
310/42 ..With assembling, metal casting or machining
feature

6 310/90 (3 OR, 3 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10 DYNAMOELECTRIC
310/40R .Rotary
310/66 ..With other elements
310/90 ...Bearing or air-gap adjustment or bearing
lubrication

5 123/216 (4 OR, 1 XR)
Class 123 : INTERNAL-COMBUSTION ENGINES
123/200 ROTARY
123/216 .With charge treatment means

5 123/242 (1 OR, 4 XR)
Class 123 : INTERNAL-COMBUSTION ENGINES
123/200 ROTARY
123/241 .With compression, combustion, and expansion in
a single variable volume
123/242 ..Planetating rotor

5 310/114 (1 OR, 4 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10 DYNAMOELECTRIC
310/40R .Rotary
310/114 ..Plural rotary elements

5 310/49R (4 OR, 1 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10 DYNAMOELECTRIC
310/40R .Rotary
310/46 ..Magnetic motors
310/49R ...Step-by-step

5 310/67R (1 OR, 4 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10 DYNAMOELECTRIC

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- 310/40R .Rotary
- 310/66 ..With other elements
- 310/67R ...Inbuilt or incorporated unit

- 5 360/98.07 (1 OR, 4 XR)
 - Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR RETRIEVAL
 - 360/88 RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING
 - 360/97.01 .Disk record
 - 360/98.01 ..Plural disks
 - 360/98.07 ...Rotational drive detail

- 4 29/598 (2 OR, 2 XR)
 - Class 029 : METAL WORKING
 - 29/592 METHOD OF MECHANICAL MANUFACTURE
 - 29/592.1 .Electrical device making
 - 29/596 ..Dynamolectric machine
 - 29/598 ...Rotor

- 4 310/112 (0 OR, 4 XR)
 - Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 - 310/10 DYNAMOELECTRIC
 - 310/40R .Rotary
 - 310/112 ..Plural units, structurally united

- 4 360/99.08 (0 OR, 4 XR)
 - Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR RETRIEVAL
 - 360/88 RECORD TRANSPORT WITH HEAD STATIONARY DURING TRANSDUCING
 - 360/97.01 .Disk record
 - 360/99.08 ..Rotational drive detail

- 3 29/596 (1 OR, 2 XR)
 - Class 029 : METAL WORKING
 - 29/592 METHOD OF MECHANICAL MANUFACTURE
 - 29/592.1 .Electrical device making
 - 29/596 ..Dynamolectric machine

- 3 60/487 (3 OR, 0 XR)
 - Class 060 : POWER PLANTS
 - 60/325 PRESSURE FLUID SOURCE AND MOTOR
 - 60/487 .Input pump and rotary output motor system having displacement varying type of direction or speed selector

- 3 91/485 (0 OR, 3 XR)
 - Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
 - 91/472 THREE OR MORE CYLINDERS ARRANGED IN PARALLEL RADIAL OR CONICAL RELATIONSHIP WITH ROTARY TRANSMISSION AXIS
 - 91/484 .Control valve seating surface contact maintained by fluid pressure bias
 - 91/485 ..Disc valve

- 3 310/162 (1 OR, 2 XR)
 - Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 - 310/10 DYNAMOELECTRIC

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310/40R .Rotary
 310/159 ..A.C.
 310/162 ...Synchronous

3 310/198 (0 OR, 3 XR)

Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/179 ..Windings and core structure
 310/195 ...Armature or primary
 310/198Plural windings

3 310/68R (0 OR, 3 XR)

Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/66 ..With other elements
 310/68R ...Electric circuit elements

3 318/138 (0 OR, 3 XR)

Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/138 SPACE-DISCHARGE-DEVICE COMMUTATED MOTOR

3 360/97.03 (3 OR, 0 XR)

Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
 RETRIEVAL
 360/88 RECORD TRANSPORT WITH HEAD STATIONARY DURING
 TRANSDUCING
 360/97.01 .Disk record
 360/97.02 ..Environmental control (e.g., air filter,
 temperature control)
 360/97.03 ...Plural disks

3 415/111 (0 OR, 3 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/110 WITH LUBRICATING, SEALING, PACKING OR BEARING
 MEANS HAVING INTERNAL WORKING FLUID CONNECTION (E.G., FL
 OR FLUID BIASED SEAL, ETC.)
 415/111 .For shaft sealing, packing, lubricating or
 bearing means

UID

3 417/205 (0 OR, 3 XR)

Class 417 : PUMPS
 417/199.1 DIVERSE PUMPS
 417/205 .Series

3 417/410.3 (0 OR, 3 XR)

Class 417 : PUMPS
 417/321 MOTOR DRIVEN
 417/410.1 .Electric or magnetic motor
 417/410.3 ..Rotary expansible chamber pump

3 417/462 (1 OR, 2 XR)

Class 417 : PUMPS
 417/437 EXPANSIBLE CHAMBER TYPE
 417/460 .Moving cylinder
 417/462 ..Unidirectionally rotating cylinder

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- 3 418/201.1 (1 OR, 2 XR)
 Class 418 : ROTARY EXPANSIBLE CHAMBER DEVICES
 418/191 INTERENGAGING ROTATING MEMBERS
 418/201.1 .Helical or herringbone
- 2 123/450 (1 OR, 1 XR)
 Class 123 : INTERNAL-COMBUSTION ENGINES
 123/434 CHARGE FORMING DEVICE (E.G., POLLUTION CONTROL)
 123/445 .Fuel injection system
 123/446 ..Fuel pump flow regulation
 123/448 ...Sequential distributor
 123/450Rotary distributor
- 2 180/65.7 (0 OR, 2 XR)
 Class 180 : MOTOR VEHICLES
 180/54.1 POWER
 180/65.1 .Electric
 180/65.6 ..With gearing between electric motor and drive
 wheel
 180/65.7 ...Gearing is a changeable ratio gearing
- 2 180/65.8 (0 OR, 2 XR)
 Class 180 : MOTOR VEHICLES
 180/54.1 POWER
 180/65.1 .Electric
 180/65.8 ..With electronic devices (logic gates,
 semi-conductors, vacuum tubes, etc.) in control circuit
- 2 267/140.12 (1 OR, 1 XR)
 Class 267 : SPRING DEVICES
 267/136 RESILIENT SHOCK OR VIBRATION ABSORBER
 267/140.11 .Including energy absorbing means or feature
 (e.g., supplemental vehicle equipment, such as motor mou
 nt,
 seat, etc., including additional fluid or friction energy
 y
 absorber)
 267/140.12 ..Having concentric coaxial spring between
 plural confining means for radial force
- 2 267/140.13 (1 OR, 1 XR)
 Class 267 : SPRING DEVICES
 267/136 RESILIENT SHOCK OR VIBRATION ABSORBER
 267/140.11 .Including energy absorbing means or feature
 (e.g., supplemental vehicle equipment, such as motor mou
 nt,
 seat, etc., including additional fluid or friction energy
 y
 absorber)
 267/140.13 ..Axial
- 2 277/318 (0 OR, 2 XR)
 Class 277 : SEAL FOR A JOINT OR JUNCTURE
 277/317 SEAL COMBINED WITH INDICATOR, SAMPLER, OR
 INSPECTION FEATURE
 277/318 .Fluid pressure
- 2 277/375 (0 OR, 2 XR)

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- Class 277 : SEAL FOR A JOINT OR JUNCTURE
 277/345 SEAL BETWEEN RELATIVELY MOVABLE PARTS (I.E.,
 DYNAMIC SEAL)
 277/358 .Relatively rotatable radially extending
 sealing face member (e.g., face, mechanical, etc.)
 277/370 ..Installation, removal, assembly, disassembly,
 or repair feature
 277/371 ...Unitized seal assembly (e.g., cartridge,
 etc.)
 277/375Mounted in housing or casing
- 2 277/408 (0 OR, 2 XR)
 Class 277 : SEAL FOR A JOINT OR JUNCTURE
 277/345 SEAL BETWEEN RELATIVELY MOVABLE PARTS (I.E.,
 DYNAMIC SEAL)
 277/358 .Relatively rotatable radially extending
 sealing face member (e.g., face, mechanical, etc.)
 277/408 ..Introduction, circulation, or removal of
 fluid
- 2 310/115 (0 OR, 2 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/114 ..Plural rotary elements
 310/115 ...Field and armature both rotate
- 2 310/156.32 (1 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/152 ..Permanent magnet machines
 310/156.01 ...Permanent magnet rotor
 310/156.32Including an axial air gap
- 2 310/156.36 (0 OR, 2 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/152 ..Permanent magnet machines
 310/156.01 ...Permanent magnet rotor
 310/156.32Including an axial air gap
 310/156.36With plural sets of rotating magnets
- 2 310/166 (1 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/159 ..A.C.
 310/166 ...Induction
- 2 310/178 (1 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/177 ..D.C.
 310/178 ...Homopolar
- 2 310/179 (0 OR, 2 XR)

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Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10      DYNAMOELECTRIC
310/40R     .Rotary
310/179     ..Windings and core structure

2 310/185    (0 OR, 2 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10      DYNAMOELECTRIC
310/40R     .Rotary
310/179     ..Windings and core structure
310/180     ...Field or excitation windings or structure
310/184     ....Plural field windings
310/185     .....Plural sets of poles

2 310/254    (1 OR, 1 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10      DYNAMOELECTRIC
310/40R     .Rotary
310/254     ..Stator structure

2 310/261    (1 OR, 1 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10      DYNAMOELECTRIC
310/40R     .Rotary
310/261     ..Rotor structure

2 310/40MM   (1 OR, 1 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10      DYNAMOELECTRIC
310/40R     .Rotary
310/40MM    ..Miniature motors

2 310/68B    (1 OR, 1 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10      DYNAMOELECTRIC
310/40R     .Rotary
310/66      ..With other elements
310/68R     ...Electric circuit elements
310/68B     ....Condition responsive (e.g., position,
              torque, etc.)

2 310/89     (0 OR, 2 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10      DYNAMOELECTRIC
310/40R     .Rotary
310/66      ..With other elements
310/85      ...Mechanical shields or protectors
310/89      ....Housings, windows or covers

2 318/139    (2 OR, 0 XR)
Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
318/139     BATTERY-FED MOTOR SYSTEMS

2 318/466    (2 OR, 0 XR)
Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
318/445     AUTOMATIC AND/OR WITH TIME-DELAY MEANS (E.G.,
              AUTOMATIC STARTING AND/OR STOPPING)
318/466     .Movement, position, or limit-of-travel

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- 2 318/539 (0 OR, 2 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/538 MOTOR STRUCTURE ADJUSTMENT OR CONTROL
 318/539 .Both armature and field structures rotatable
 or adjustable
- 2 318/696 (1 OR, 1 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/696 OPEN-LOOP STEPPING MOTOR CONTROL SYSTEMS
- 2 318/701 (2 OR, 0 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/700 SYNCHRONOUS MOTOR SYSTEMS
 318/701 .Hysteresis or reluctance motor systems
- 2 318/773 (1 OR, 1 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/727 INDUCTION MOTOR SYSTEMS
 318/767 .Primary circuit control
 318/772 ..Plural speed
 318/773 ...Pole changing
- 2 322/32 (2 OR, 0 XR)
 Class 322 : ELECTRICITY: SINGLE GENERATOR SYSTEMS
 322/17 AUTOMATIC CONTROL OF GENERATOR OR DRIVING MEANS
 322/29 .Speed or frequency of generator
 322/32 ..Frequency responsive devices or networks
- 2 324/161 (2 OR, 0 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/160 ELECTRICAL SPEED MEASURING
 324/161 .Speed comparing means
- 2 324/166 (0 OR, 2 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/160 ELECTRICAL SPEED MEASURING
 324/166 .Including speed-related frequency generator
- 2 360/133 (0 OR, 2 XR)
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
 RETRIEVAL
 360/131 RECORD MEDIUM
 360/132 .In container
 360/133 ..For disk
- 2 366/147 (1 OR, 1 XR)
 Class 366 : AGITATING
 366/144 WITH HEATING OR COOLING
 366/147 .Medium in stirrer or mixing chamber
- 2 366/84 (1 OR, 1 XR)
 Class 366 : AGITATING
 366/69 RUBBER OR HEAVY PLASTIC WORKING
 366/79 .Stirrer is through-pass screw conveyor
 366/83 ..Plural screw conveyors on separate shafts
 366/84 ...In parallel intercommunicating mixing
 chambers

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- 2 366/89 (0 OR, 2 XR)
 Class 366 : AGITATING
 366/69 RUBBER OR HEAVY PLASTIC WORKING
 366/79 .Stirrer is through-pass screw conveyor
 366/89 ..Varying diameter of shaft
- 2 384/107 (1 OR, 1 XR)
 Class 384 : BEARINGS
 384/91 ROTARY BEARING
 384/100 .Fluid bearing
 384/107 ..Radial and thrust
- 2 384/110 (0 OR, 2 XR)
 Class 384 : BEARINGS
 384/91 ROTARY BEARING
 384/100 .Fluid bearing
 384/107 ..Radial and thrust
 384/110 ...Conical
- 2 384/448 (0 OR, 2 XR)
 Class 384 : BEARINGS
 384/91 ROTARY BEARING
 384/445 .Antifriction bearing
 384/448 ..Sensor or inspection features; liquid metal
 or shipping protection features; bearing member integral
 with seal
- 2 415/108 (1 OR, 1 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/108 CASING AND SPACED HOUSING WITH SPACE VENTED TO
 WORKING FLUID
- 2 415/112 (2 OR, 0 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/110 WITH LUBRICATING, SEALING, PACKING OR BEARING
 MEANS HAVING INTERNAL WORKING FLUID CONNECTION (E.G., F
 LUID OR FLUID BIASED SEAL, ETC.)
 415/111 .For shaft sealing, packing, lubricating or
 bearing means
 415/112 ..With inlet and outlet connections
- 2 415/113 (0 OR, 2 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/110 WITH LUBRICATING, SEALING, PACKING OR BEARING
 MEANS HAVING INTERNAL WORKING FLUID CONNECTION (E.G., F
 LUID OR FLUID BIASED SEAL, ETC.)
 415/111 .For shaft sealing, packing, lubricating or
 bearing means
 415/113 ..Fluid biased, movable or resilient portion
- 2 415/115 (2 OR, 0 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
 415/115 WITH PASSAGE IN BLADE, VANE, SHAFT OR ROTARY
 DISTRIBUTOR COMMUNICATING WITH WORKING FLUID
- 2 415/176 (0 OR, 2 XR)
 Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

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- OR
- 415/175 INCLUDING ADDITIONAL MEANS CAUSING OR
CONTROLLING FLUID FLOW FOR HEAT EXCHANGING, LUBRICATING
- SEALING
- 415/176 .Means subjected to or is working fluid
- 2 415/199.5 (0 OR, 2 XR)
Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
415/182.1 WORKING FLUID PASSAGE OR DISTRIBUTING MEANS
ASSOCIATED WITH RUNNER (E.G., CASING, ETC.)
415/198.1 .Plural rigidly related blade sets
415/199.4 ..Including an axial-flow blade set
415/199.5 ...Plural serial axial-flow blade sets with
intermediate stationary flow diverter(s)
- 2 415/229 (0 OR, 2 XR)
Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
415/229 BEARING, SEAL, OR LINER BETWEEN SHAFT OR SHAFT
SLEEVE AND STATIC PART
- 2 415/230 (0 OR, 2 XR)
Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
415/229 BEARING, SEAL, OR LINER BETWEEN SHAFT OR SHAFT
SLEEVE AND STATIC PART
415/230 .Seal
- 2 415/231 (0 OR, 2 XR)
Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
415/229 BEARING, SEAL, OR LINER BETWEEN SHAFT OR SHAFT
SLEEVE AND STATIC PART
415/230 .Seal
415/231 ..Resiliently biased
- 2 415/26 (0 OR, 2 XR)
Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
415/13 WITH CONTROL MEANS RESPONSIVE TO NON-CYCLIC
CONDITION SENSING, CENTRIFUGAL ACTUATION OR TORQUE
415/26 .Responsive to moving member developed fluid
force, current or pressure
- 2 415/49 (0 OR, 2 XR)
Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
415/13 WITH CONTROL MEANS RESPONSIVE TO NON-CYCLIC
CONDITION SENSING, CENTRIFUGAL ACTUATION OR TORQUE
415/47 .Temperature or fluid force responsive member
415/49 ..Fluid force responsive member controls
working fluid
- 2 416/114 (0 OR, 2 XR)
Class 416 : FLUID REACTION SURFACES
416/98 SUSTAINED ANCILLARY MOVEMENT OF ROTARY WORKING
MEMBER (E.G., CYCLIC FEATHERING, ETC.)
416/112 .Responsive to fixed actuator (e.g., cam or
trip, etc.)
416/113 ..Axial cam
416/114 ...Selectively adjustable
- 2 416/96A (0 OR, 2 XR)

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- Class 416 : FLUID REACTION SURFACES
416/95 WITH HEATING, COOLING OR THERMAL INSULATION MEANS
416/96R .Changing state mass within or fluid flow through working member or carrier
416/96A ..Blade inserts
- 2 416/97R (0 OR, 2 XR)
Class 416 : FLUID REACTION SURFACES
416/95 WITH HEATING, COOLING OR THERMAL INSULATION MEANS
416/96R .Changing state mass within or fluid flow through working member or carrier
416/97R ..Flow exhausted to working fluid
- 2 417/203 (0 OR, 2 XR)
Class 417 : PUMPS
417/199.1 DIVERSE PUMPS
417/201 .Including rotary nonexpansible chamber type
417/203 ..Preceding diverse pump
- 2 417/204 (2 OR, 0 XR)
Class 417 : PUMPS
417/199.1 DIVERSE PUMPS
417/204 .Moving partition or cylinder of rotary pump forms or actuates reciprocating pump
- 2 417/269 (0 OR, 2 XR)
Class 417 : PUMPS
417/269 THREE OR MORE CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL RELATIONSHIP WITH ROTARY TRANSMISSION AXIS
- 2 417/42 (2 OR, 0 XR)
Class 417 : PUMPS
417/1 CONDITION RESPONSIVE CONTROL OF PUMP DRIVE MOTOR
417/42 .In response to pump speed
- 2 417/423.12 (0 OR, 2 XR)
Class 417 : PUMPS
417/321 MOTOR DRIVEN
417/410.1 .Electric or magnetic motor
417/423.1 ..Rotary motor and rotary nonexpansible chamber pump
417/423.12 ...Having bearing
- 2 417/45 (0 OR, 2 XR)
Class 417 : PUMPS
417/1 CONDITION RESPONSIVE CONTROL OF PUMP DRIVE MOTOR
417/44.1 .By control of electric or magnetic drive motor
417/45 ..By changing electrical characteristic of motor or motor circuit
- 2 417/486 (0 OR, 2 XR)
Class 417 : PUMPS
417/437 EXPANSIBLE CHAMBER TYPE

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- 417/486 .Plural pumping members in single pump chamber
- 2 425/379.1 (0 OR, 2 XR)
Class 425 : PLASTIC ARTICLE OR EARTHENWARE SHAPING OR
TREATING: APPARATUS
425/376.1 STOCK PRESSURIZING MEANS OPERABLY ASSOCIATED
WITH DOWNSTREAM SHAPING ORIFICE
425/378.1 .Including heating or cooling means
425/379.1 ..Plural spaced
- 2 433/126 (0 OR, 2 XR)
Class 433 : DENTISTRY
433/25 APPARATUS
433/103 .Having motor or means to transmit motion from
motor to tool (e.g., "engine")
433/114 ..Hand-held tool or handpiece
433/126 ...Having means facilitating assembly or
disassembly of tool or handpiece
- 2 433/132 (2 OR, 0 XR)
Class 433 : DENTISTRY
433/25 APPARATUS
433/103 .Having motor or means to transmit motion from
motor to tool (e.g., "engine")
433/114 ..Hand-held tool or handpiece
433/131 ...Having motor
433/132Rotary fluid turbine
- 2 494/37 (1 OR, 1 XR)
Class 494 : IMPERFORATE BOWL: CENTRIFUGAL SEPARATORS
494/37 PROCESS